

2000S

BENDING BEAM LOAD CELL

High-end load cell combining high accuracy with high resistance in harsh environment.

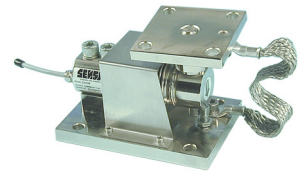
- Stainless steel
- Protection IP67 (welded sealing)
- Complies with OIML/R60 up to 3000d for scales in class III
- Standardized dimensions
- Available options (non exhaustive list):
 - o ATEX Ex ia IIC T6 to T4 certified (hazardous area)
 - o High service temperature (180 °C)
 - o Protection: IP68
- Whole range of mounting kits available



Model 2000S - 100 kg

The SENSY's load cell 2000S is perfectly designed to the following applications :

- OIML certified and industrial scales
- Packaging, batching and filling machines
- Reactors, tanks, vessel or hoppers weighing



2000S + I2000

CAPACITIES :

2000S : 10 - (15) - 20 - (30) - 50 - (75) - 100 - (150) - 200 - 300 kg

| TECHNICAL DATA | | | | | | | |
|--|-------------|---------------|--------------------|----------------|--------------------|----------------|--------------------|
| Accuracy class | | 0.1 1000 d | C 1 1000 d OIML | 0.05 2000 d | C 2 2000 d OIML | 0.03 3000 d | C 3 3000 d OIML |
| Linearity error | % F.S. | < ± 0.1 | < ± 0.03 | < ± 0.05 | < ± 0.025 | < ± 0.025 | < ± 0.020 |
| Hysteresis error | % F.S. | < ± 0.1 | < ± 0.03 | < ± 0.05 | < ± 0.025 | < ± 0.025 | < ± 0.020 |
| Non - repeatability | % F.S. | < ± 0.03 | < ± 0.02 | < ± 0.02 | < ± 0.01 | < ± 0.015 | < ± 0.01 |
| Creep error over 30 min. | % F.S. | < ± 0.06 | < ± 0.04 | < ± 0.04 | < ± 0.03 | < ± 0.025 | < ± 0.020 |
| Zero shift after loading | % F.S. | < ± 0.015 | < ± 0.01 | < ± 0.01 | < ± 0.0075 | < ± 0.0075 | < ± 0.005 |
| Reference temperature | °C | 23 | | | | | |
| Nominal temperature range | °C | - 10...+ 45 | | | | | |
| Service temperature range | °C | - 30...+ 70 | | | | | |
| Storage temperature range | °C | - 50...+ 85 | | | | | |
| Temperature coefficient of the sensitivity | % /10°C | < ± 0.05 | < ± 0.02 | < ± 0.035 | < ± 0.015 | < ± 0.015 | < ± 0.009 |
| Temperature coefficient of zero signal | % F.S./10°C | < ± 0.035 | < ± 0.03 | < ± 0.03 | < ± 0.02 | < ± 0.023 | < ± 0.013 |
| Nominal sensitivity | mV/V | 2 | | | | | |
| Zero balance | mV/V | ± 0.02 | | | | | |
| Sensitivity tolerance (g=9,8107 m/s²) | % | < ± 0.3 | | | | < ± 0.1 | |
| Input / Output resistance | Ohm | 351 ± 2 | | | | | |
| Insulation resistance (50V) | MOhm | > 5000 | | | | | |
| Nominal excitation voltage | V | 5 to 10 | | | | | |
| Allowed excitation voltage | V | 2...15 | | | | | |
| Safe load limit | % F.S. | 150 | | | | | |
| Breaking load | % F.S. | > 300 | | | | | |
| Static lateral force limit | % F.S. | 100 | | | | | |
| Permissible dynamic loading | % F.S. | 60 | | | | | |

F.S.: full scale Specifications subject to change without notice

LOAD CELL

model 2000S stainless steel

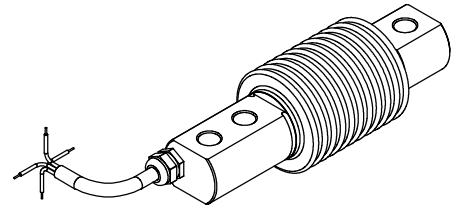
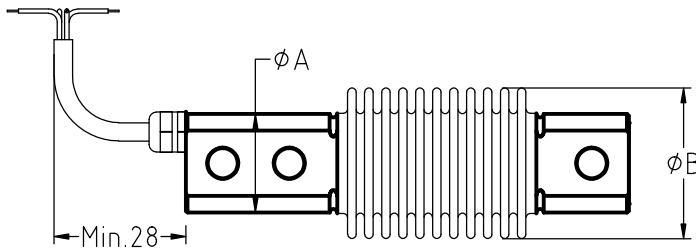
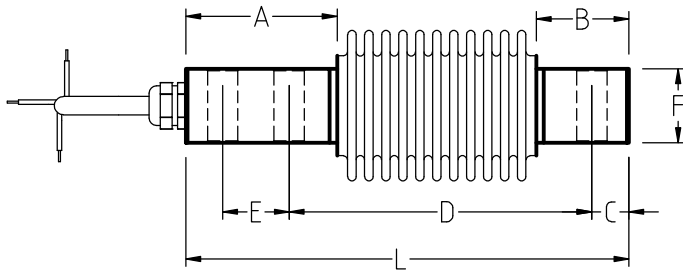
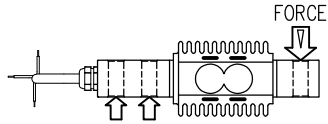
HERMETIC SEALED BENDING BEAM

Range 10–300 kg IP67

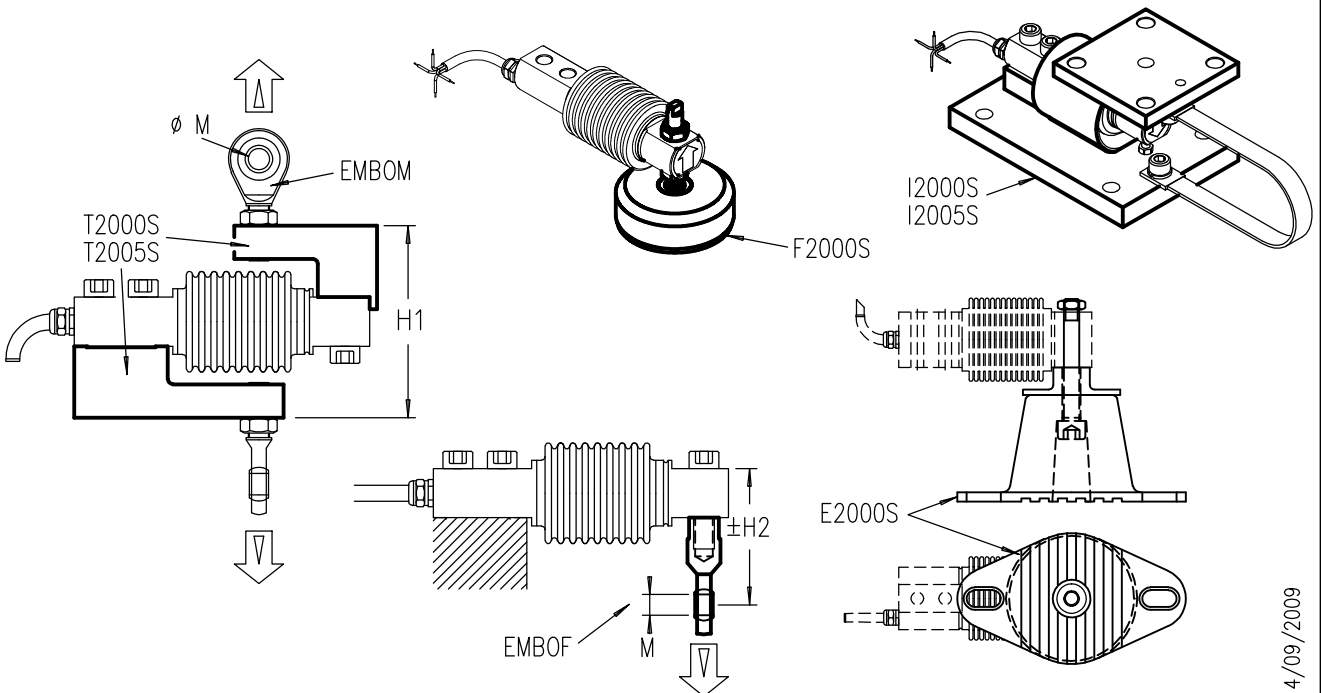
Cable length : 3 m



ATEX CERTIFIED



| CAPACITIES | A | B | C | D | E | F | L | φ1 | φ2 | φA | φB | H1 | H2 | H3 | φM | Max.deflexion | Weight |
|------------|----|----|----|----|----|----|-----|-----|-----|------|----|----|----|----|----|---------------|---------|
| 10 – 300kg | 40 | 23 | 10 | 82 | 18 | 20 | 120 | 8.2 | 8.2 | 26.7 | 42 | 78 | 56 | 83 | 8 | 0.2 to 0.3 | 0.48 kg |

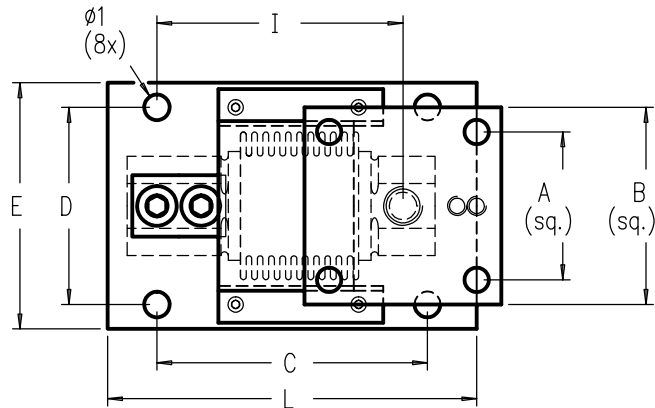
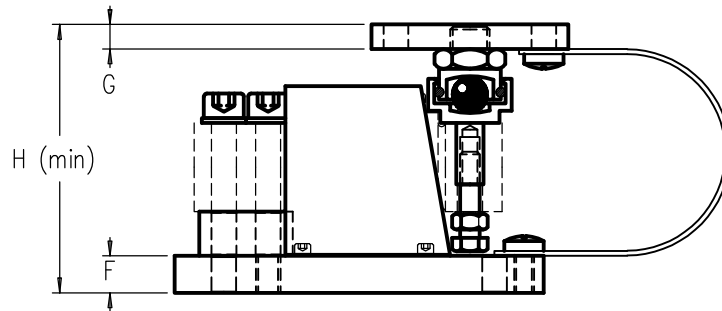


ACCESSORIES

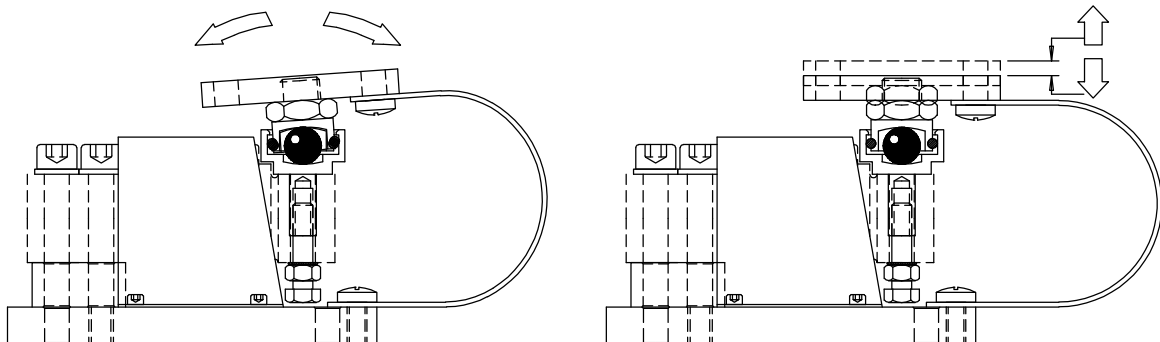
model I2000 stainless steel
 model I2005 coated steel

EASY MOUNT MODEL 2000

Range 10 - 300 kg



| MODEL | CAPACITIES | A | B | C | D | E | F | G | I | H | L | Ø1 |
|-------------------|-------------|----|----|-----|----|-----|----|----|-----|----|-----|------|
| I2000(S)-I2005(S) | 10 - 300 kg | 60 | 80 | 110 | 80 | 100 | 15 | 10 | 100 | 83 | 150 | 10.5 |

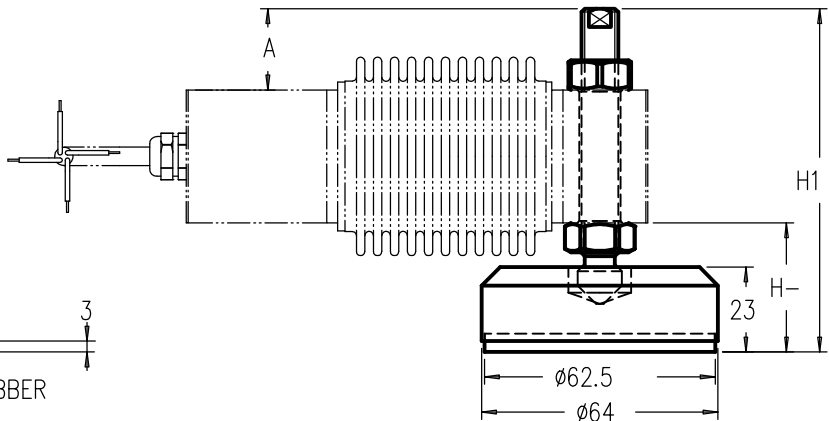
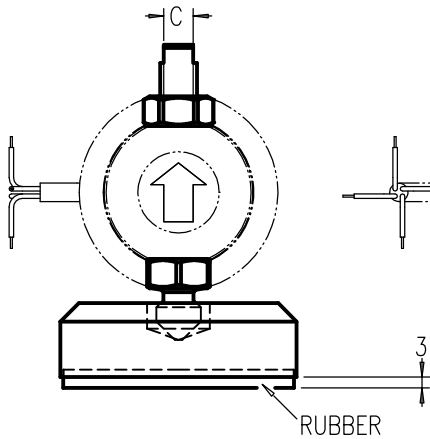
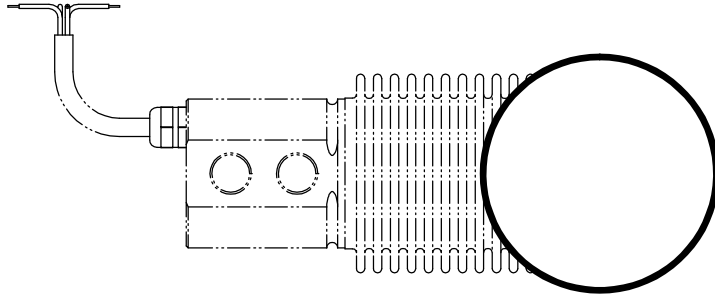
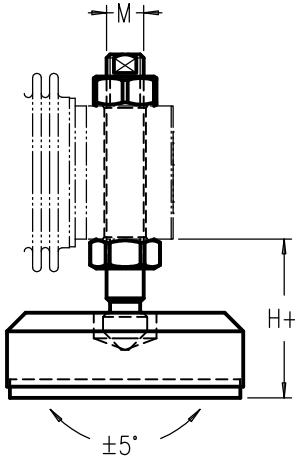


ACCESSORIES

model F2000 stainless steel

DAMPED MOUNTING

Range 10 - 300 kg



| MODEL | CAPACITIES | FOR LOADCELL | A | C | M | H- | H+ | H1 |
|---------|------------|--------------|------|---|---|----|----|------|
| F2000-S | 10-300 kg | 2000S-2005S | 20.5 | 4 | 8 | 36 | 45 | 76.5 |

